

254219	10	20	30	40	50	60	70	80	90	100
P47210	MALDCEQVLEEG	—	—	—	—	—	—	—	—	—
L38810	MALDCEQVLEEG	—	—	—	—	—	—	—	—	—
X66400	MALDCEQVLEEG	—	—	—	—	—	—	—	—	—
sel. pk0023.b5	MALDCEQVLEEG	—	—	—	—	—	—	—	—	—
cs1. pk0051.b7	MALDCEQVLEEG	—	—	—	—	—	—	—	—	—
254219	110	120	130	140	150	160	170	180	190	200
P47210	HPEKRVVDKNDINDVTPNCKVALRNDSTTHKLPNCKVPLSVIMWKPSTYEMIGELDKQKEINVEIPLVWHPFELFALGAPKGVILY	189								
L38810	HPEKRVVDKNDINDVTPNCKVALRNDSTTHKLPNCKVPLSVIMWKPSTYEMIGELDKQKEINVEIPLVWHPFELFALGAPKGVILY	189								
X66400	HPEKRVVDKNDINDVTPNCKVALRNDSTTHKLPNCKVPLSVIMWKPSTYEMIGELDKQKEINVEIPLVWHPFELFALGAPKGVILY	189								
sel. pk0023.b5	HPEKRVVDKNDINDVTPNCKVALRNDSTTHKLPNCKVPLSVIMWKPSTYEMIGELDKQKEINVEIPLVWHPFELFALGAPKGVILY	189								
cs1. pk0051.b7	HPEKRVVDKNDINDVTPNCKVALRNDSTTHKLPNCKVPLSVIMWKPSTYEMIGELDKQKEINVEIPLVWHPFELFALGAPKGVILY	189								
254219	210	220	230	240	250	260	270	280	290	300
P47210	GFPGTGKTLARAVAHHTDCTFIRVSSSELVQNTIGECARWRELFWAREHPSIIFRMEIDISIGSSRLEGGSG-GUSEVQNTMELINQIDGETATN	288								
L38810	GFPGTGKTLARAVAHHTDCTFIRVSSSELVQNTIGECARWRELFWAREHPSIIFRMEIDISIGSSRLEGGSG-GUSEVQNTMELINQIDGETATN	288								
X66400	GFPGTGKTLARAVAHHTDCTFIRVSSSELVQNTIGECARWRELFWAREHPSIIFRMEIDISIGSSRLEGGSG-GUSEVQNTMELINQIDGETATN	288								
sel. pk0023.b5	GFPGTGKTLARAVAHHTDCTFIRVSSSELVQNTIGECARWRELFWAREHPSIIFRMEIDISIGSSRLEGGSG-GUSEVQNTMELINQIDGETATN	288								
cs1. pk0051.b7	GFPGTGKTLARAVAHHTDCTFIRVSSSELVQNTIGECARWRELFWAREHPSIIFRMEIDISIGSSRLEGGSG-GUSEVQNTMELINQIDGETATN	288								

FIG. 1

FIGURE 2

1 MATVAMDISKPTPAASGDEAAAAAKGRSGGGEGRLQYYLQHIHDLQLOIRKTHNLNRL
2 MALVGVELKHAAGVPEANCSA...KPTKQGGELRHYYSLNIHEHQLLRKTHNLNRL
3 MALDGPQMELEEG.....KAGSGLRQYYLSKIEELQLIVNDSQNLRL
4 MATVAMDISKPTPVASGDEAAAAAKGRSGGGEGRLQYYLQHIHDLQLOIRKTHNLNRL

1 EAQRNDLSNRVRLREELQLLOEPGSYVGEVVKVMGSKVLVKVHPGKYVVDIDKSIDI
2 EAQRNDLSNRVRLREELQLLOEPGSYVGEVVKVMGSKVLVKVHPGKYVVDIDKSIDI
3 QAQRNELNAKVRLLREELQLLOEPGSYVGEVVKVMGSKVLVKVHPGKYVVDIDKSIDI
4 EAQRNDLSNRVRLREELQLLOEPGSYVGEVVKVMGSKVLVKVHPGKYVVDIDKSIDI

1 TKITPSTRVALRND SYMLHLILPSKVDPLVNLMKVEKVPDSTYDMIGGLDQOIKEIKEVI
2 TKITPSTRVALRND SYVHLVLPSKVDPLVNLMKVEKVPDSTYDMIGGLDQOIKEIKEVI
3 NDVTPNCRVALRND SYTLHKILPNKVDPLVSLMMVEKVPDSTYEMIGGLDQOIKEIKEVI
4

1 ELPIKHPELFESLGAQPKGVLLYGPFGTGKTLARAVAHHTDCTFIRVSGSELVQKYIG
2 ELPIKHPELFESLGAQPKGVLLYGPFGTGKTLARAVAHHTDCTFIRVSGSELVQKYIG
3 ELPVKHPELFESLGAQPKGVLLYGPFGTGKTLARAVAHHTDCTFIRVSGSELVQKYIG
4

1 EGSRMVRELFVMAREHAPSIIIFMDEIDSIGSRMESGTGNGDSEVQRTMLELLNQLDGEF
2 EGSRMVRELFVMAREHAPSIIIFMDEIDSIGSRMESGTGNGDSEVQRTMLELLNQLDGEF
3 EGARMVRELFVMAREHAPSIIIFMDEIDSIGSRLEGSGG.GDSEVQRTMLELLNQLDGEF
4

1 ASNKIKVLMATNRIDILDQALLRPGRIDRKIEFPNPNEDSRFDILKHSRKMNLMRGIDL
2 ASNKIKVLMATNRIDILDQALLRPGRIDRKIEFPNPNEESRLDILKHSRKMNLMRGIDL
3 ATKNIKVIMATNRIDILDSALLRPGRIDRKIEFPNPNEEARLDILKHSRKMNLTRGINL
4

1 KKIAEKMNGASGAELKAVCTEAGMFALRRRVHVTQEDFEMAVAKVMKKDTEKNMSLRKL
2 KKIAEKMNGASGAELKAVCTEAGMFALRRRVHVTQEDFEMAVAKVMKKDTEKNMSLRKL
3 RKIAELMPGASGAELKAVCTEAGMFALRRRVHVTQEDFEMAVAKVMKKDTEKNMSLRKL
4

1 WK
2 WK
3 WK
4 ..